

Features

- Universal Input 90~264V AC
- Interchangeable Plugtop Adapters
- Approved to UKCA, CE, TUV-GS, cULus, FCC, RoHS
- Safety standards to IEC/UL/EN 60950-1
- Single Output 12~30V DC
- OVP, OCP, OTP, SCP



Ideal Power's 15DYS650-xyW 50W AC/DC External Desktop Power Supply (PSU) Series are certified to UKCA, CE, TUV-GS, cULus, FCC, RoHS & IEC 60950-1/UL 60950-1/EN 60950-1 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage V DC	Output Current A	Output Power W	Efficiency %
15DYS650-180280W	18	2.8	50.4	88
15DYS650-240210W	24	2.1	50.4	88
15DYS650-300168W	30	1.68	50.4	88

Input Data

	Min	Typical	Max	Units	Notes
Input Voltage	90	--	264	V AC	100-240VAC +/- 10%
Input Frequency	47	--	63	Hz	60Hz/50Hz Nominal
Input Current	--	--	1.3	A	at 100-240Vac input & Full load
Inrush Current	--	--	80	A	at 100-240Vac input and Max load for a cold start at 25°C
Leakage Current	--	--	0.25	mA	at 264Vac / 50Hz

Output Data

	Min	Typical	Max	Units	Notes
Output Voltage Range	17.1	--	31.5	V	Model Dependant
Ripple & Noise	200	--	300	mVpp	Model Dependant
Turn On Delay	--	--	3	S	at 100 Vac to 240 Vac input & Full load
Hold Up	--	--	5	S	at Full load & 115Vac/60Hz input turn off at worst case
Over Current Protection			3.64	A	Will recover if fault condition is removed
Short Circuit Protection					Will recover if fault condition is removed
Over Voltage Protection					Will recover if fault condition is removed

Environmental Data

	Min	Typical	Max	Units	Notes
Operating Temperature	0	--	+40	°C	
Storage Temperature	-20	--	+80	°C	
Operating Humidity	10	--	90	%	non condensing
Relative Humidity	5	--	95	%	non condensing

Other Information

	Notes
Dielectric Strength	Primary to Secondary: 4242VDC / 5mAMax / 60second(3 seconds for mass production)
MTBF	50,000 hrs at 25°C
Dimensions	97.5x52.5x32.3mm
Output Cord	18~24V-20AWG/30V-22AWG UL2468,1.2M Black
Output Connector	2.1mm x 5.5mm x 12.0mm

Safety Approvals

	Safety Standards
Safety Standards	IEC/UL/EN 60950
Approvals	UKCA, CE, TUV-GS, cULus, FCC, RoHS

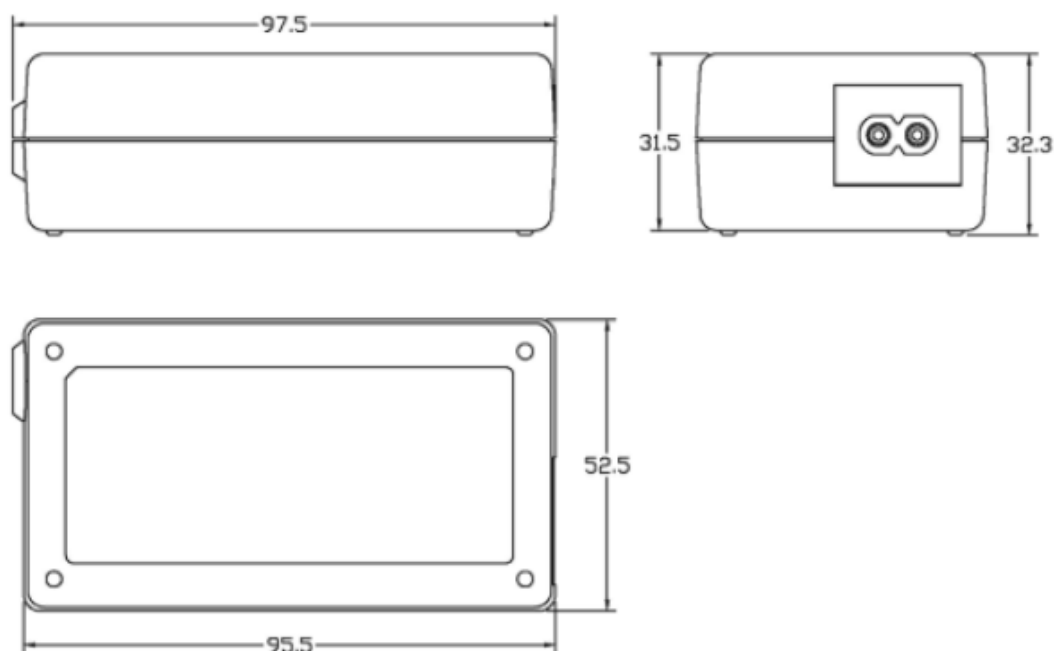
EMI Standards

	Test Level
EMI	EN 55022 / FCC Part 15 Class B / AS/NZS CISPR22

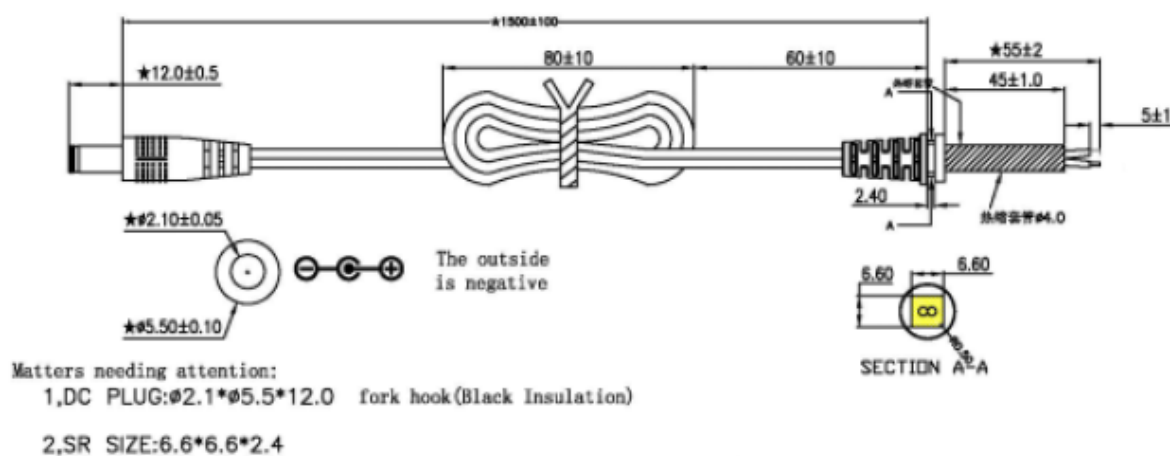
EMS Standards

	Test Level	Test Criteria
EMS	EN 55024	
ESD	IEC 61000-4-2	Air discharge +/-8KV, Contact discharge +/-4KV
EFT	IEC 61000-4-4	AC-Input 0.5KV/1KV
Surge Voltage	IEC 61000-4-5	Differential mode +/-1KV. Common mode +/-2KV

Mechanical Drawing



Cable Drawing



Label



Packaging

PLASTIC BAG



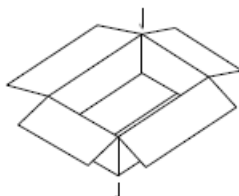
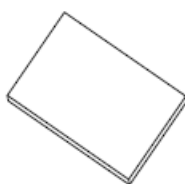
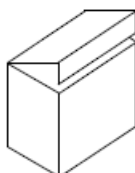
WHITE BOX



CARDBOARD



PAPER CASE



MECHANICAL DIMENSION:

	L(mm)	W(mm)	H(mm)
PLASTIC BAG	210	130	
WHITE BOX	145	70	40
CARDBOARD	365	300	
PAPER CASE	375	310	235

PACKING METHOD:

PACKING METHOD	10PCS/LAYER *5LAYERS
QTY	50PCS
N.G	10.2Kg
G.W	11.8Kg